

# MATERIAL SAFETY DATA SHEET

# Energy Shield®

MANUFACTURER ADDRESS	::	Atlas Roofing Corporation 2000 River Edge Parkway Suite 800 Atlanta GA 30328	
PHONE	:	Call one of the following numbers for t Hours 8:00 AM to 5:00 PM (respective t	•
		Camp Hill, Pennsylvania	800-688-1476
		East Moline, Illinois	800-677-1476
		LaGrange, Georgia	800-955-1476
		Northglenn, Colorado	800-288-1476
		Phoenix, Arizona	800-477-1476
		Diboll, Texas	800-766-1476
		Etobicoke, Ontario, Canada	888-647-1476
DATE OF			
PREPARATION	:	January 1, 2005	
PREPARED BY	:	Environment and Health Officer	
PRODUCT NAME	:	Energy Shield <sup>®</sup> Insulation	

## SECTION 1 - COMPONENT DATA

#### HAZARDOUS INGREDIENTS

COMMON NAME	CHEMICAL NAME	PERCENT (approx.)	C.A.S. NUMBER
Polyisocyanurate Foam	Same	98	None
Pentane	Same	2	109-66-0

## SECTION 2 - PHYSICAL DATA

PROPERTY			PROPERTY		
Boiling Point (° F)	:	NA*	Specific Gravity (H <sub>2</sub> 0=1)	:	ND**
Melting Point	:	NA	Solubility In Water	:	Insoluble
Vapor Pressure (mmHg @ 20	°C)	NA	Evaporative Rate (Ethyl Ether = 1)	:	NA
Percent Volatile By Volun pH Vapor Density (Air = 1)	ne : : :	NA NA NA	Appearance And Odor	:	White or cream colored solid with a foil facing, and with no odor

\*NA = Not Applicable

\*\*ND = Not Determined

## SECTION 3 - FIRE & EXPLOSION HAZARD DATA

Flash Point (° F)	:	NA Method Used : NA
Flammability Limits	:	ΝΑ
LEL : NA UEL	:	ΝΑ
Auto-Ignition Temperature (° F)	:	ΝΑ
Extinguishing Media	:	CO <sub>2</sub> , Dry Chemical, Water Spray
Special Fire Fighting Instructions	:	Self contained breathing apparatus
Unusual Fire And Explosion Hazards	:	This product will burn and should not be left exposed. Under certain fire conditions, combustible gases can be generated creating rapidly spreading, high intensity flames and dense, black smoke.

## SECTION 4 - REACTIVITY DATA

Stability (Conditions to Avoid)	:	Stable, avoid sources of ignition.
Incompatibility (Materials to Avoid)	:	Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide, and dimethyl formamide.
Hazardous Decomposition Products	:	Primarily CO, CO <sub>2</sub> . Some HCN possible under certain conditions.
Hazardous Polymerization	:	Will not occur.

## SECTION 5 - HEALTH HAZARD DATA

Primary Route(s) of Entry	:	Inhalation

#### **INHALATION**

Acute	:	Dust may cause respiratory tract irritation.
Chronic	:	There is no evidence that polyisocyanurate foam dust causes
		disease in humans.

#### SKIN CONTACT

Acute	:	Dust may cause mechanical irritation.
Chronic	:	None known.

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#### EYE CONTACT

Acute	:	Dust will cause mechanical irritation.
Chronic	:	None known.

Signs and Symptoms of Exposure

Mechanical irritation of the eyes, skin and respiratory tract.

Medical Conditions Generally Aggravated By Exposure

Any condition generally aggravated by mechanical irritants in the air or on the skin.

#### **Exposure Limits**

Hazardous Ingredients	OSHA PEL (mg/M <sup>3</sup> )	ACGIH TLV (mg/M <sup>3</sup> )	Other Recommended (Source)
Polyisocyanurate Foam (as nuisance dust)	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>	None
Pentane	1000 ppm TWA	600 ppm TWA	1500 ppm IDLH (NIOSH)

Carcinogenicity

Hazardous Ingredients	NTP Listed	IARC Listed	OSHA Regulated
Polyisocyanurate Foam	No	No	No
Pentane	No	No	No

## SECTION 6 - EMERGENCY AND FIRST-AID PROCEDURES

Inhalation	:	None required.
Skin	:	Wash with soap and cool running water.
Eyes	:	Flush with running water for at least 15 minutes.

## SECTION 7 - SPECIAL HANDLING AND STORAGE INFORMATION

Installation Procedure	:	Cutting of product should be done with a serrated type knife or saw (i.e. gypsum wallboard or keyhole). The use of rotary powered saws is not recommended, as the original continuous filament fibers in the facings are of non-respirable size and the use of powered saws may create smaller fibers and cause them to become airborne.
Ventilation	:	Ambient. Store in a dry, well ventilated area. Assure storage containers or areas and shipping containers are adequately ventilated.
Respiratory Protection	:	If irritation occurs or TLV is exceeded, use a respirator such as 3M Model 8271, Model 8210, or equivalent for protection against nuisance dusts.
Protective Clothing	:	If excessive dust is generated during cutting operations, wear long sleeved shirt, loose fitting clothing, long pants and gloves, to reduce irritation.
Eye Protection	:	Goggles or safety glasses with side shields are recommended.

Work / Hygienic Practices : Exposed skin areas should be washed with soap and cool water after working with product. Clothing should be laundered separately from other clothes. Handle product using good industrial hygiene and safety practices. Avoid unnecessary dust exposures when cutting or abrading by using adequate local or general ventilation.

## SECTION 8 - SPILL, LEAK & DISPOSAL PROCEDURES

Action To Take For Spills (Use Appropriate Safety Equipment)

:

NA

Waste Disposal Method

Dispose in accordance with federal, state and local regulations. The primary method of disposal is in a municipal or industrial landfill.

EPA Hazardous Waste Number : NA

This material is not regulated under the "RCRA" hazardous waste regulations.

## SECTION 9 - SPECIAL PRECAUTIONS / ADDITIONAL INFORMATION

Precautions To Be Taken In Handling And Storage	:	None
Department of Transportation Information	:	
Hazardous Material Proper Shipping Name Hazard Class UN Identification Number	::	Not Regulated by D.O.T. NA None
Additional Information	:	None

Prepared by	Larry Overstreet (KH)
	<b>Environment and Health Officer</b>
	Atlas Roofing Corporation

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